No. 7200118

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Oklahoma Agricultural Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS CERTIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

Nicoma

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 19th *day of* November *in the year of our Lord one thousand nine hundred and* seventy three.

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

No. 7200118

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Oklahoma Agricultural Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

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Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

PV # 7200118

WHEAT

'Nicoma'

13A. Exhibit A:

Pedigree: Triumph/3/(C.I.12406) Marquillo/Oro//Oro/Tenmarq

'Nicoma' was selected for early maturity and strong gluten properties. Grown in Oklahoma yield tests and in Southern Regional performance nursery.

'Nicoma' is stable (it does not exceed normal range of variability) for important identifying characteristics.

Variability has been observed for:

1. Chaff color (certain environments produce black streaks in chaff).

2. Spiklet alignment (occassionally exhibits a slight rotation in arrangement of spiklets along rachis)

3. Plant height (small percentage of taller plants).

13B. Exhibit B:

'Nicoma' is early, midtall, with midstrong white stem. Glumes are glabrous; shoulders are narrow; beaks midwide, length 1 to 3 mm.; awns white, length 3 to 7 cm.; kernels midlong, brush midsized.

13C. Exhibit C:

Kind	:	Common
Type	:	Hard red winter
Season	:	173 days to 1st flower, 190 days to last flowering
Maturity	:	4 days earlier than 'Scout'
Plant height	:	84 cm., 5 cm. shorter than 'Scout'
Plant color booting	:	Green
Anther color	:	Yellow
Stem	:	Waxy, anthocyanin absent
Last internode of rachis	:	Hairy
Internodes	:	Hollow
No. of nodes	:	3
Internode below flag leaf	:	20 cm. length

13C. Exhibit C (continued):

Auricles	:	Hairy, anthocyanin absent
Flag leaf	:	Recurved, not twisted
First leaf sheath	:	Glabrous
Head	:	Dense, tapering awned, 7 cm. long, 8 mm. wide
Glumes	:	White, midlong, midwide
Shoulder	:	Square
Beak	:	Acuminate
Coleoptile	:	White
Seedling anthocyanin	:	Absent
Juvenile growth habit	:	Semi-erect
Seed	:	Red, ovate, with rounded cheeks
Brush	:	Short, not collared
Seed size	:	7 mm. length, 3 mm. width, 37 gm. per 1,000 seed
Seed crease	:	Narrow, shallow
Disease	:	Susceptible to stem rust, leaf rust, and powdery mildew; Resistant to loose smut
Green bug	:	Susceptible

Similar to 'Triumph 64'.

13D. Exhibit D:

'Nicoma' is most similar to 'Triumph 64'. It is also similar to 'Triumph' in maturity, plant height, test weight, winter hardiness and resistance to loose smut.

'Nicoma' has significantly stronger gluten properties as evidenced by a longer mixing time and higher mixing tolerance than 'Triumph' and 'Triumph 64'. It is superior to 'Triumph' in grain yield potential and milling and baking quality. 'Nicoma' has consistently averaged 15% less rust than 'Triumph' in field tests.

13E. Exhibit E:

Oklahoma Agricultural Experiment Station is sole owner of 'Nicoma' wheat. It was developed at Oklahoma Agricultural Experiment Station by its employers.

NICOMA WHEAT
EXHIBIT A

Origin and Breeding History

Nicoma is a "pure-line" variety developed by the F_2 Progeny Method of breeding, from a cross of Triumph by C.I.12406. The final individual head selection was made in the F_5 generation of an F_2 sub population. The cross was made at the Oklahoma Agricultural Experiment Station in 1954 for the purpose of combining the early maturity and yield stability of Triumph with the strong gluten properties of C.I.12406.

Triumph is a widely-grown, early maturing variety with "mellow" gluten properties. A detailed description of this variety has been published (Briggle and Reitz. 1963. USDA Tech. Bul. 1278).

C.I.12406 is an unreleased Kansas experimental strain of the pedigree: Marquillo/Oro//Oro/Tenmarq. It is 7 to 10 days later than Triumph in maturity and is characterized by strong gluten properties resulting in a long mixing time and high mixing tolerance of the dough (Schlehuber, et al. 1967. Crop Sci. 7:13-16).

Steps in Breeding and Testing

1954 ---- Cross was made at the Oklahoma Agricultural Exp. Sta. Assigned cross number 54X9b.

1955 ---- Five F_1 plants grown in greenhouse.

1956 ---- Not grown.*

1957 ---- Not grown.*

1958 ---- F_2 population grown as spaced-plants in the field and individual plants selected.

1959 ---- Grown as F_3 plant rows. Selection made among rows, but not within.

1960 ---- F_4 grown as F_2 subpopulations in special genetic study (see article by Schlehuber et al. 1967. Crop Sci. 7:13-16).

1961 ---- F_5 same as above. A total of 111 head selections were made.

1962 ---- F_6 grown as head rows. Along with others, row number 7514 was selected. Experimental number OK627514 assigned.

1963 ---- OK627514 grown in observation nursery.

1964 ---- Grown in Preliminary Yield Nursery (PYN) at Stillwater.

1965 ---- Entered in Intermediate Wheat Performance Nursery (IWPN).

1966 ---- Grown in IWPN for second year. Entered in Southern Regional Performance Nursery (SRPN). Assigned Cereal Investigation number C.I.13874.

1967 ---- Tested in SRPN for second year. Entered in the Oklahoma Advanced Wheat Performance Nursery (AWPN). 300 head rows grown for initial Breeder Seed Increase (BSI).

1968 ---- Tested for third year in SRPN and for second year in AWPN. Entered in collaborative Large Scale Milling and Baking tests (LSMB). 300 progeny head rows grown for BSI.

1969 ---- Tested for third year in AWPN and for second year in LSMB. 270 progeny blocks grown for BSI but abandoned because of storm damage.

1970 ---- Tested for fourth year in AWPN. One acre BSI block grown at Perkins from bulked remnant seed of 1968 BSI progeny head rows.

1971 ---- Tested for fifth year in AWPN. Ten acre BSI grown at Tipton for the production of Foundation Seed. A total of 400 bushels of Foundation seed distributed to growers in the fall of 1971.

---

*C.I.12406 X Triumph and the reciprocal cross of Triumph X C.I.12406 were made in 1954 and assigned cross numbers 54X9a and 54X9b, respectively. Both F_1 populations were grown in 1955. In 1956 and 1957 the 54X9a population (C.I.12406 X Triumph) was grown, but since no lines were recovered with Triumph maturity, this population was abandoned and the F_2 population of 54X9b (Triumph X C.I.12406 was picked up in 1958.

PVPA
Application No. 72118
Nicoma Wheat

Revised Exhibit A.
Please include a statement or evidence of varietal stability or frequency of variants.

Observations indicate that Nicoma is stable (i.e. does not exeeed normal range of variability) for important identifying characteristics. Variability has been observed in the following 3 characteristics. 1) Chaff color. Nicoma is normally white chaffed but in certain environments exhibits black streaks in the chaff as does its parent, Triumph. 2) Spikelet alignment. Nicoma occassionally exhibits a slight rotation in the arrangement of spikelets along the rachis. 3) Plant height. Nicoma occassionally exhibits a small percentage of slightly taller-than-normal plants. However, the degree of variability is considered to be within the range of acceptance for most wheat varieties.

NICOMA WHEAT
EXHIBIT B

Botanical Description

Nicoma is a hard red winter wheat. It is early in maturity, and midtall in plant height. The stem is white and midstrong; the spike is awned, fusiform to oblong, middense, and inclined; the glumes are glabrous, white (occassionally with black markings), midlong, and narrow; the shoulders are narrow and oblique to square (mostly square); the beaks are midwide, acuminate, and vary from 1 to 3 mm in length; the awns are white and 3 to 7 cm in length; the kernels are red, midlong, hard, and ovate; the germ is midsized; the crease is midwide and shallow; the cheeks are rounded; the brush is midsized and midlong.

FORM GR-470-6
(7-3-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Oklahoma Agricultural Experiment Station

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
Oklahoma State University
Stillwater, Oklahoma 74074

FOR OFFICIAL USE ONLY

PVPO NUMBER
72118

VARIETY NAME OR TEMPORARY DESIGNATION
Nicoma

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. KIND:

[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

[2] 1 = SPRING 2 = WINTER 3 = OTHER *(Specify)* _____ [2] 1 = SOFT 2 = HARD 3 = OTHER *(Specify)* _____

[2] 1 = WHITE 2 = RED 3 = OTHER *(Specify)* _____

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

[1][7][3] FIRST FLOWERING [1][9][0] LAST FLOWERING

4. MATURITY *(50% Flowering)*:

[0][4] NO. OF DAYS *EARLIER* THAN ..... [2] 1 = ARTHUR 2 = SCOUT 3 = CHRIS

[ ][ ] NO. OF DAYS *LATER* THAN ..... [ ] 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT *(From soil level to top of head)*:

[0][8][4] CM. HIGH

[ ][ ] CM. TALLER THAN ..... [ ] 1 = ARTHUR 2 = SCOUT 3 = CHRIS

[0][5] CM. SHORTER THAN ..... [2] 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING *(See reverse)*:

[2] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHER COLOR:

[1] 1 = YELLOW 2 = PURPLE

8. STEM:

[1] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

[ ][3] NO. OF NODES *(Originating from node above ground)*

[2] Waxy bloom: 1 = ABSENT 2 = PRESENT

[1] Internodes: 1 = HOLLOW 2 = SOLID

[2][0] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

[1] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

[2] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER *(Specify)*: _____

[1] Flag leaf: 1 = NOT TWISTED 2 = TWISTED

[1] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

[ ] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

[ ][ ] MM. LEAF WIDTH *(First leaf below flag leaf)*

[ ][ ] CM. LEAF LENGTH *(First leaf below flag leaf)*:

PVPA
Application No. 72118
Nicoma Wheat

Revised Exhibit 1.

Please indicate a statement as to whether the variety Triumph used as a comparison is most similar to Nicoma.

Triumph 64 (C.I.13679) is most similar to Nicoma in most agronomic characteristics. However, it differs from Triumph 64 in bread-making quality. It has stronger gluten properties as evidenced by a longer mixing time and a higher mixing tolerance of the dough.

NICOMA WHEAT
EXHIBIT D

Data Indicative of Novelty

Nicoma is similar to Triumph in maturity, plant height, test weight, and winterhardiness; but has slightly stronger straw than Triumph. It apparently has the 'Triumph' type resistance to loose smut. Although Nicoma is susceptible to leaf rust in the seedling stage, it appears to have some degree of adult plant resistance to this organism. In field tests, Nicoma has consistently averaged 15% less rust than Triumph. Nicoma is superior to Triumph in grain yield potential and is markedly superior to Triumph in milling and baking quality. It has a long mixing requirement and a high mixing tolerance of the dough as contrasted to the short mixing time and low mixing tolerance of Triumph.

(continued Exhibit D)

Table 1. Average quality data of C.I.13874 and several other wheat varieties in the Oklahoma Advanced Wheat Performance Nursery, 1969 and 1970. (Analyses by O.A.E.S. Quality Laboratory)

Variety	Wheat Protein (%)	Flour Protein (%)	Flour Yield (%)	Water Absorp. (%)	Mixing Time (min)	Corrected Loaf Vol. (cc)
C.I.13874*	14.0	12.3	68.9	62.6	6:15	927
Triumph	14.7	13.1	67.5	62.2	3:20	942
Danne	13.5	12.1	67.7	63.0	5:15	921
Scout 66	13.9	12.6	70.6	63.9	4:00	993

* Nicoma

Table 2. Average quality data of C.I.13874 and several other wheat varieties in the Southern Regional Performance Nursery, 1966-1968. (Analyses by Regional Quality Laboratory)

Variety	Wheat Protein (%)	Flour Protein (%)	Flour Yield (%)	Water Absorp. (%)	Mixing Time (min)	Corrected Loaf Vol. (cc)
C.I.13874*	13.6	12.7	74.6	62.0	4:40	866
Triumph	14.2	13.3	73.7	59.4	2:15	860
Danne	12.6	11.7	73.7	60.2	3:30	917
Scout 66	13.4	12.2	74.6	60.5	3:20	906

* Nicoma

Exhibit E

Statement of the Basis of Applicant's Ownership

Dr. James A. Whatley, Director of the Oklahoma Agricultural Experiment Station is the applicant. Dr. A.M. Schlehuber, now retired, but formerly a plant breeder, E.L. Smith, D.C. Abbott, and H.C. Young of the Oklahoma Agricultural Experiment Station all contributed to the selection, development and evaluation of this variety. The Oklahoma Agricultural Experiment Station is the owner of the Nicoma wheat variety.

FORM GR-470-6 (REVERSE)

11. HEAD:

[2] Density: 1 = LAX 2 = DENSE

[1] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER *(Specify)* _____

[4] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[1] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER *(Specify)*: _____

[0][7] CM. LENGTH [0][8] MM. WIDTH

12. GLUMES AT MATURITY:

[2] Length: 1 = SHORT *(CA. 7 mm.)* 2 = MEDIUM *(CA. 8 mm.)* 3 = LONG *(CA. 9 mm.)*

[2] Width: 1 = NARROW *(CA. 3 mm.)* 2 = MEDIUM *(CA. 3.5 mm.)* 3 = WIDE *(CA. 4 mm.)*

[4] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[3] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

[1] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[1] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

[2] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

[1] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

[1] Cheek: 1 = ROUNDED 2 = ANGULAR

[2] Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

[1] Brush: 1 = NOT COLLARED 2 = COLLARED

[2] Phenol reaction *(See instructions)*: 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[2] Embryo size: 1 = SMALL *(Lemhi)* 2 = MEDIUM *(Scout)* 3 = LARGE *(Arthur)*

[3] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER *(Specify)* _____

[0][7] MM. LENGTH [0][3] MM. WIDTH [3][.7] GM. PER 100 SEEDS

17. SEED CREASE:

[1] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[1] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[1] STEM RUST *(Races)* _____ [1] LEAF RUST *(Races)* _____ [0] STRIPE RUST *(Races)* _____ [2] LOOSE SMUT

[1] POWDERY MILDEW [0] BUNT [ ] OTHER *(Specify)* _____

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] SAWFLY [0] APHID *(Bydv.)* [1] GREEN BUG [0] CEREAL LEAF BEETLE

[ ] OTHER *(Specify)* _____

HESSIAN FLY RACES: [0] GP [0] A [0] B [0] C [0] D [0] E [0] F [0] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Triumph 64	Seed size	Triumph 64
Leaf size		Seed shape	Triumph 64
Leaf color		Coleoptile elongation	Triumph 64
Leaf carriage		Seedling pigmentation	Triumph 64

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. *(See attachment.)*

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

FORM GR-470
(2-12-71)

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSUMER AND MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 43-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	FOR OFFICIAL USE ONLY
Nicoma	Wheat	PVPO NUMBER 72118
3. GENUS AND SPECIES NAME	4. FAMILY NAME *(Botanical)*	FILING DATE 3/28/72 — TIME 3:00 A.M. P.M.
Triticum aestivum L. em. Thell	Gramineae	
	5. DATE OF DETERMINATION August, 1966	FEE RECEIVED $250.00 — CHARGES -

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Oklahoma Agricultural Experiment Station	Oklahoma State University Stillwater, Oklahoma 74074	405-372-6211, X 278 ~~266~~

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION
State University	Oklahoma	12-14-1891

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Dr. R. S. Matlock, Head
Department of Agronomy
Oklahoma State University
Stillwater, Oklahoma 74074

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [X] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*
- [X] 12B. Exhibit B, Botanical Description of the Variety
- [ ] 12C. Exhibit C, Objective Description of the Variety
- [X] 12D. Exhibit D, Data Indicative of Novelty
- [X] 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. *(See Section 52, P.L. 91-577).*

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.)* [X] YES [ ] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [X] YES [ ] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? Foundation, Registered, Certified - 3 generations

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

2-15-72
(DATE)

James A Wholley
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unles noted below.

ITEM

5 Insert the date the applicant determined that he had a new variety.

12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.

12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.